

Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	
	Filing Date	Herewith
	First Named Inventor	J. Wallace Parce
	Group Art Unit	
	Examiner Name	
	Attorney Docket Number	100/00342

1046 U.S. PTO  
09/975500  
10/31/01

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
u	AA	3,918,908		Moyer et al.	11-11-1975	
	AB	4,390,403		Batchelder	06-28-1983	
	AC	4,443,408		Mintz	04-17-1984	
	AD	4,554,839		Hewett et al.	11-26-1985	
	AE	4,675,300		Zare et al.	06-23-1987	
	AF	4,737,464		McConnell et al.	04-12-1988	
	AG	4,740,708		Batchelder	04-26-1988	
	AH	4,756,884		Hillman et al.	07-12-1988	
	AI	4,908,112		Pace	03-13-1990	
	AJ	4,952,518		Johnson et al.	08-28-1990	
	AK	4,963,498		Hillman et al.,	10-16-1990	
	AL	4,978,503		Shanks et al.	12-18-1990	
	AM	5,096,807		Leaback	03-17-1992	
	AN	5,108,703		Pfost et al.	04-28-1992	
	AO	5,126,022		Soane et al.	06-30-1992	
	AP	5,140,161		Hillman et al.	08-18-1992	
	AQ	5,144,139		Hillman et al.	09-01-1992	
	AR	5,147,606		Charlton et al.	09-15-1992	
	AS	5,164,598		Hillman et al.	11-17-1992	
	AT	5,171,132		Miyazaki et al.	12-15-1992	
	AU	5,171,534		Smith et al.	12-15-1992	
	AV	5,188,963		Stapleton	02-23-1993	
	AW	5,192,405		Petersen et al.	03-09-1993	
	AX	5,223,219		Subramanian et al.	05-29-1993	
	AY	5,271,724		van Lintel	12-21-1993	
	AZ	5,277,556		van Lintel	01-11-1994	
u	BA	5,278,048		Parce et al.	01-11-1994	
Examiner Signature	P. Chini			Date Considered	3/21/04	

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u	BB	5,296,114		Manz	03-22-1994	
	BC	5,296,375		Kricka et al.	03-22-1994	
	BD	5,304,487		Wilding et al.	04-19-1994	
	BE	5,324,591		Georger, Jr. et al.	06-28-1994	
	BF	5,375,979		Trah	12-27-1994	
	BG	5,384,261		Winkler et al.	01-24-1995	
	BH	5,395,503		Parce et al.	03-07-1995	
	BI	5,427,946		Kricka et al.	06-27-1995	
	BJ	5,429,734		Gajar	07-04-1995	
	BK	5,441,894		Coleman et al.	08-15-1995	
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	BM	5,460,709		Sarrine et al.	10-24-1995	
	BN	5,486,335		Wilding et al.	01-23-1996	
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	BP	5,498,392		Wilding et al.	03-12-1996	
	BQ	5,540,889		Gordon et al.	07-30-1996	
	BR	5,560,811		Briggs et al.	10-01-1996	
	BS	5,571,410		Swedberg et al.	11-05-1996	
	BT	5,585,069		Zanzucchi et al.	12-17-1996	
	BU	5,593,838		Zanzucchi et al.	01-14-1997	
	BV	5,605,662		Heller et al.	02-25-1997	
	BW	5,627,643		Brinbaum et al.	05-06-1997	
	BX	5,632,876		Zanzucchi et al.	05-27-1997	
	BY	5,635,358		Wilding et al.	06-03-1997	
	BZ	5,637,458		Frankel et al.	06-10-1997	
	CA	5,637,469		Wilding et al.	06-10-1997	
	CB	5,645,702		Witt et al.	07-08-1997	
	CC	5,650,075		Haas	07-22-1997	
u	CD	5,658,723		Oberhardt	08-19-1997	

Examiner Signature	C. Chin	Date Considered	3/21/04
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u	CE	5,699,157		Parce	12-16-1997	
	CF	5,716,825		Hancock et al.	02-10-1998	
	CG	5,726,026		Wilding et al.	03-10-1998	
	CH	5,731,212		Gavin et al.	03-24-1998	
	CI	5,750,015		Soane et al.	05-12-1998	
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	CK	5,770,029		Nelson et al.	06-23-1998	
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	CO	5,783,397		Hughes et al.	07-21-1998	
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	CS	5,842,787		Kopf-Sill et al.	12-01-1998	
	CT	5,852,495		Parce	12-22-1998	
	CU	5,858,187		Ramsey et al.	01-12-1999	
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	CX	5,858,804		Zanzucchi et al.	01-12-1999	
	CY	5,863,708		Zanzucchi et al.	01-26-1999	
	CZ	5,869,004		Parce et al.	02-09-1999	
	DA	5,876,675		Kennedy	03-02-1999	
	DB	5,880,071		Parce et al.	03-09-1999	
	DC	5,882,465		McReynolds	03-16-1999	
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	DE	5,919,070		Khan et al.	07-06-1999	
	DF	5,942,433		Vinson et al.	08-24-1999	
u	DG	5,942,443		Parce et al.	08-24-1999	

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u	DH	5,948,227		Dubrow	09-07-1999	
	DI	5,955,028		Chow	09-21-1999	
	DJ	5,957,579		Kopf-Sill et al.	09-28-1999	
	DK	5,958,203		Parce et al.	09-28-1999	
	DL	5,958,694		Nikiforov	09-28-1999	
	DM	5,959,291		Jensen	09-28-1999	
u	DN	6,132,685		Kercso et al.	10-17-2000	

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Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
u	DO	UK	2 248 891			04-22-1992		
	DP	EP	568 902			11-10-1993		
	DQ	EP	637 998			07-31-1996		
	DR	EP	639 223			07-03-1996		
	DS	WO	9405414			03-17-1994		
	DT	WO	9512608			05-11-1995		
	DU	WO	9527210			10-12-1995		
	DV	WO	9527211			10-12-1995		
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	DX	WO	9604547			02-15-1996		
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	EC	WO	9722000			06-19-1997		
	ED	WO	9800231		Caliper	01-08-1998		
	EF	WO	9800705		Caliper	01-08-1998		
	EG	WO	9800707		Caliper	01-08-1998		
u	EH	WO	9802728		Caliper	01-22-1998		

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u	EI	WO	9805424		Caliper	02-12-1998		
	EJ	WO	9805959		Caliper	02-12-1998		
	EK	WO	9822811		Caliper	05-28-1998		
	EL	WO	9845481		Caliper	10-15-1998		
	EM	WO	9845929		Caliper	10-15-1998		
	EN	WO	9846438		Caliper	10-22-1998		
	EO	WO	9849548		Caliper	11-05-1998		
	EP	WO	9855852		Caliper	12-10-1998		
	EQ	WO	9856956		Caliper	12-17-1998		
	ER	WO	9900649		Caliper	01-07-1999		
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	EU	WO	9916162		Caliper	04-01-1999		
	EV	WO	9919056		Caliper	04-22-1999		
	EW	WO	9919516		Caliper	04-22-1999		
u	EX	WO	9929497		Caliper	06-17-1999		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
u	EY	BAO, J. et al., "Ultramicro enzyme assays in a capillary electrophoretic system," <u>J. Chrom.</u> 608:217-224 (1992)			
	EZ	BUNIN et al., "A General and Expedient Method for the Solid-Phase Synthesis of 1,4-Benzodiazepine Derivatives," <u>J. Amer. Chem. Soc.</u> 114:10997-10998 (1992)			
	FA	CHO et al., "An Unnatural Biopolymer," <u>Science</u> 261:1303-1305 (1993)			
	FB	CHU, Y-H. et al., "Affinity Capillary Electrophoresis - Mass Spectrometry for Screening Combinatorial Libraries," <u>J. Am. Chem. Soc.</u> 118:7827-7835 (1996)			
	FC	COHEN, C.B. et al., "A microchip-based enzyme assay for protein kinase A," <u>Anal. Biochem.</u> 273:89-97 (1999)			
u	FD	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <u>Anal. Chem.</u> 66:1792-1798 (1994)			

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u	FE	EFFENHAUSER, C.S. et al., "Glass chips for high-speed capillary electrophoresis separations with submicrometer plate heights," <u>Anal. Chem.</u> 65:2637-2642 (1993)	
	FF	EFFENHAUSER, C.S. et al., "High-speed separation of antisense oligonucleotides on a micromachined capillary electrophoresis device," <u>Anal. Chem.</u> 66:2949-2953 (1994)	
	FG	HARMON, B.J. et al., "Mathematical Treatment of Electrophoretically Mediated Microanalysis," <u>Anal. Chem.</u> 65:2655-2662 (1993)	
	FH	HARMON, B.J. et al., "Selectivity in Electrophoretically Mediated Microanalysis by Control of Product Detection Time," <u>Anal. Chem.</u> 66:3797-3805 (1994)	
	FI	HARRISON, D.J. et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <u>Anal. Chem.</u> 64:1926-1932 (1992)	
	FJ	HARRISON, D.J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> 261:895-897 (1993)	
	FK	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> 66(7):1107-1113 (1994)	
	FL	JACOBSON, S.C. et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> 66(7):1114-1118 (1994)	
	FM	JACOBSON, S.C. et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. Chem.</u> 66(14):2369-2373 (1994)	
	FN	JACOBSON, S.C. et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. Chem.</u> 67:2059-2063 (1995)	
	FO	JACOBSON, S.C. et al., "Microchip electrophoresis with sample stacking," <u>Electrophoresis</u> 16:481-486 (1995)	
	FP	JUNG et al., "Multiple Peptide Synthesis Methods and Their Applications," <u>Angew. Chem. Int. Ed. Engl.</u> 31(4):367-383 (1992)	
	FQ	KIKUCHI, Y. et al., "Optically Accessible Microchannels Formed in a Single-Crystal Silicon Substrate for Studies of Blood Rheology," <u>Microvascular Research</u> 44:226-240 (1992)	
	FR	KOUTNY, L.B. et al., "Microchip Electrophoretic Immunoassay for Serum Cortisol," <u>Anal. Chem.</u> 68:18-22 (1996)	
	FS	KRAAK et al., "Study of protein-drug binding using capillary zone electrophoresis," <u>J. Chrom.</u> 608:257-264 (1992)	
↓	FT	LINHARES, M.C. et al., "Use of an On-Column Fracture in Capillary Zone Electrophoresis for Sample Introduction," <u>Anal. Chem.</u> 63:2076-2078 (1991)	
u	FU	MANZ, A. et al., "Miniaturized Total Chemical Analysis Systems: a novel concept for Chemical Sensing," <u>Sensors and Actuators B1</u> :244-248 (1990)	

Examiner Signature	C. Chin	Date Considered	3/21/04
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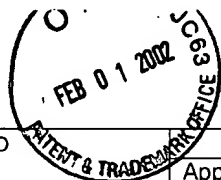
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u	FV	MANZ, A. et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems," <u>Trends in Anal. Chem.</u> 10(5):144-149 (1991)	
	FW	MANZ, A. et al., "Planar chip technology for miniaturization and integration of separation techniques into monitoring systems," <u>J. Chrom.</u> 593:253-258 (1992)	
	FX	MANZ, A. et al., "Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> 4:257-265 (1994)	
	FY	PAVIA et al., "The Generation of Molecular Diversity," <u>Bioorg. Med. Chem. Lett.</u> 3(3):387-396 (1993)	
	FZ	RAMSEY, J.M. et al., "Microfabricated chemical measurement systems," <u>Nature Med.</u> 1:1093-1096 (1995)	
	GA	SCHMALZING, D. et al., "Solution-Phase Immunoassay for Determination of Cortisol in Serum by Capillary Electrophoresis," <u>Clin. Chem.</u> 41(9):1403-1406 (1995)	
	GB	SEILER, K. et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> 65:1481-1488 (1993)	
	GC	SEILER, K. et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow Within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> 66:3485-3491 (1994)	
	GD	SIMON et al., "Peptoids: A modular approach to drug discovery," <u>PNAS</u> 89:9367-9371 (1992)	
	GE	SONG, M.I. et al., "Multisample Analysis Using an Array of Microreactors for an Alternating-Current Field-Enhanced Latex Immunoassay," <u>Anal. Chem.</u> 66(6):778-781 (1994)	
	GF	WEAVER et al., "Gel microdroplets: rapid detection and enumeration of individual microorganisms by their metabolic activity," <u>Bio/Technology</u> 6:1084-1089 (1988)	
	GG	WILEY et al., "Peptidomimetics derived from Natural Products," <u>Med. Res. Rev.</u> , 13:327-384 (1993)	
	GH	WOOLLEY, A.T. et al., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <u>PNAS</u> 91:11348-11352 (1994)	
u	GI	ZUCKERMAN et al., "Efficient Method for the Preparation of Peptoids [Oligo(N-substituted glycines)] by Submonomer Solid-Phase Synthesis," <u>J. Amer. Chem. Soc.</u> , 114:10646-10647 (1992)	

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	Filing Date	October 11, 2001
	First Named Inventor	Parce
	Group Art Unit	1641
	Examiner Name	
	Attorney Docket Number	100/00342

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U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
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	AA					
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		Office	Number	Kind Code (if known)				
a	AM	WO	01/93997		Univ. of California	12-13-2001		
	AN							
	AO							

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
2052.002000A/LEA/EDHAPPLICATION NO.  
09/975,506APPLICANT  
Parce *et al.*FILING DATE  
October 11, 2001GROUP  
1641

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
u	AA1	5,180,480	01/1993	Manz			
u	AB1	6,368,871	04/2002	Christel <i>et al.</i>			
	AC1						
	AD1						
	AE1						
	AF1						
	AG1						
	AH1						
	AI1						
	AJ1						
	AK1						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
u	AL1	WO 96/03206	02/1996	PCT			Yes No
	AM1	WO 96/12541	05/1996	PCT			Yes No
	AN1	WO 98/54568	12/1998	PCT			Yes No
	AO1	WO 99/09042	02/1999	PCT			Yes No
u	AP1	WO 99/17093	04/1999	PCT			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AS	1	
	AT	1	

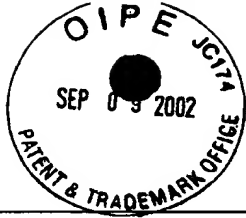
EXAMINER

C. Chin

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FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 2052.002000A		APPLICATION NO. 09/975,500	
				APPLICANT PARCE <i>et al.</i>			
				FILING DATE October 11, 2001		GROUP 1641	
RECEIVED SEP 11 2002 TECH CENTER 1600/2900							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
u	AA2	5,104,804	04/1992	Humphries <i>et al.</i>			
	AB2	5,312,731	05/1994	Engstrom			
	AC2	5,389,524	02/1995	Larsen <i>et al.</i>			
	AD2	5,441,873	08/1995	Knight <i>et al.</i>			
	AE2	5,451,525	09/1995	Shenkin <i>et al.</i>			
	AF2	5,488,469	01/1996	Yamamoto <i>et al.</i>			
	AG2	5,547,849	08/1996	Baer <i>et al.</i>			
u	AH2	5,607,565	03/1997	Azarnia <i>et al.</i>			
	AI2						
	AJ2						
	AK2						
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	AL2						Yes No
	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
u	AR	2	Baxter, Gregory T. <i>et al.</i> , "Using Microphysiometry To Study The Pharmacology Of Exogenously Expressed m <sub>1</sub> and m <sub>2</sub> Muscarinic Receptors," <i>Life Sciences</i> (01/1994) 55(8):573-583				
u	AS	2	Owicki, J.C. <i>et al.</i> , "Continuous Monitoring of Receptor-Mediated Changes In The Metabolic Rates Of Living Cells," <i>Proc. Natl. Acad. Sci. USA</i> (05/1990) 87(10):4007-4011				
u	AT	2	McConnell, H. M. <i>et al.</i> , "The Cytosensor Microphysiometer: Biological Applications of Silicon Technology," <i>Science</i> (09/1992) 257:1906-1912				
EXAMINER  C. Chi					DATE CONSIDERED  3/21/04		
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 2052.002000A	APPLICATION NO. 09/975,500
	APPLICANT PARCE <i>et al.</i>	
	FILING DATE October 11, 2001	GROUP 1641

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
u	AA1	3,014,848	12/1961	Ferrari, Jr.			
	AB1	3,018,224	01/1962	Ferrari, Jr.			
	AC1	3,065,148	11/1962	Ferrari, Jr.			
	AD1	3,615,241	10/1971	Low			
	AE1	3,699,004	10/1972	Skeggs			
	AF1	3,700,562	10/1972	Morgenstern <i>et al.</i>			
	AG1	3,701,716	10/1972	Deuringer <i>et al.</i>			
	AH1	4,618,586	10/1986	Walker			
	AI1	4,629,686	12/1986	Gruenberg			
↓	AJ1	4,783,413	11/1988	Suter			
u	AK1	5,032,381	07/1991	Bronstein <i>et al.</i>			

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1						Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

u	AR	1	Omann, Geneva M. <i>et al.</i> , "A Convenient On-Line Device for Reagent Addition, Sample Mixing, and Temperature Control of Cell Suspensions in Flow Cytometry," <i>Cytometry</i> (01/1985)6(1):69-73
u	AS	1	Lindberg, Walter <i>et al.</i> , "Flow Injection Cytometry: A New Approach for Sample and Solution Handling in Flow Cytometry," <i>Cytometry</i> (02/1993) 14(2):230-236
u	AT	1	Nolan, John P. <i>et al.</i> , "A Rapid Mix Flow Cytometer With Subsecond Kinetic Resolution," <i>Cytometry</i> (11/1995) 21(3):223-229

EXAMINER C. Chen	DATE CONSIDERED 3/21/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.